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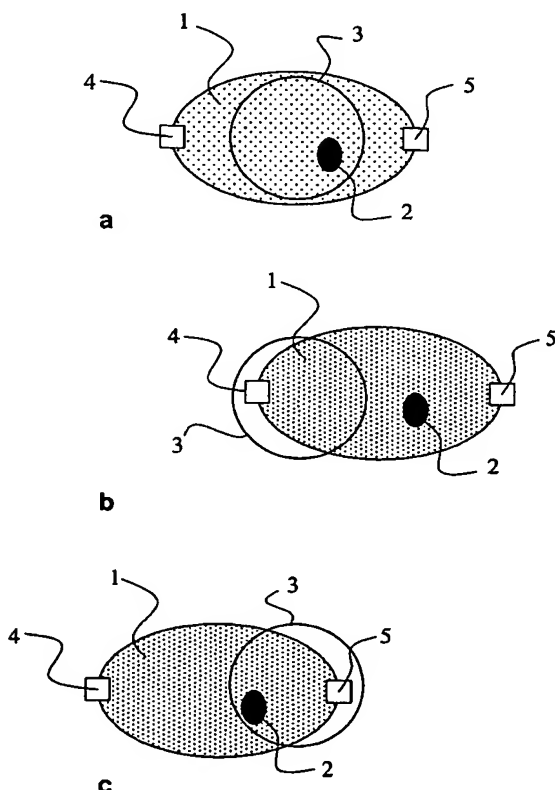
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(54) Title: USING MAGNETIC RESONANCE IMAGES FOR LOCATING ANATOMICAL TARGETS



(57) Abstract: A novel MR method and system is described for using MR images for planning radiotherapy treatment. The images are obtained by a scanner which generates a magnetic field with a magnetic center (isocenter). First at least one fiducial marker (4;5) is applied to the body (1) of the patient at a predetermined distance from the isocenter. The patient is repositioned within said scanner such that an anatomical target (2) is located in close vicinity of said isocenter. A first image of said target (2) is obtaining and then the patient (1) is shifted such that the fiducial marker (4;5) is close to the isocenter. A second image is obtained at the shifted position, in which the fiducial marker has an accurate geometrical position, that is merged into said first image.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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